Attorney Docket No.: COOL-00901

## **CLAIM AMENDMENTS**

## IN THE CLAIMS:

This listing of claims wills replace all prior versions, and listings, of claims regarding the present application. In reading this, text added by the amendment is <u>underlined</u> and canceled text appears in <u>strikethrough</u>.

- 1 1. (Original) An apparatus for preventing cracking of a liquid system, comprising: 2 at least one heat exchanger; 3 at least one inlet port extending through a first opening for conveying a fluid to a plurality 4 of channels and passages: 5 at least one outlet port extending through a second opening for discharging the fluid from 6 the plurality of channels and passages; and 7 one or more compressible objects coupled to the inlet and outlet ports in an unpressured 8 condition such that the compressible objects reduce a volume of the inlet port and the 9 outlet port and further wherein pressure exerted on the compressible object increases a 10 volume of the inlet port and the outlet port.
- 1 2. (Original) The apparatus of claim 1, wherein the compressible objects accommodate a predetermined level of fluid expansion.
- 1 3. (Original) The apparatus of claim 2, wherein the predetermined level of fluid expansion is between 5 to 25 percent.
- 4. (Original) The apparatus of claim 1, wherein the compressible objects being capable of contracting and expanding between a minimum volume and a maximum volume.
- 1 5. (Original) The apparatus of claim 1, wherein the compressible objects being secured within the inlet port and the outlet port.

- 1 6. (Original) The apparatus of claim 1, wherein the compressible objects are confined within the inlet port and the outlet port.
- 7. (Original) The apparatus of claim 1, wherein the compressible objects are made of one of the following: sponge, foam, air-filled bubbles, or balloons.
- 8. (Original) The apparatus of claim 7, wherein the sponge or foam is hydrophobic.
- 9. (Original) The apparatus of claim 1, wherein the compressible object is encapsulated in a gas or liquid impermeable package.
- 1 10. (Original) The apparatus of claim 9, wherein the package is formed of metallic barrier material or metallized plastic sheet material.
- 1 11. (Original) The apparatus of claim 9, wherein the package has a hydrophilic surface or coating.
- 1 12. (Original) The apparatus of claim 9, wherein the package is formed of plastic material.
- 1 13. (Currently Amended) The apparatus of claim 12, wherein the plastic material is selected from the group teflon, mylar, PET, PEN, and PVC, or other suitable plastic materials.
- 1 14-24 (Withdrawn).
- 1 25. (Original) An apparatus for preventing cracking of a liquid system, comprising:
- an enclosure; and
- 3 one or more compressible objects immersed in the enclosure.
- 1 26. (Original) The apparatus of claim 25, wherein the objects accommodate a predetermined level of fluid expansion.
- 1 27. (Original) The apparatus of claim 26, wherein the predetermined level of fluid expansion 2 is between 5 to 25 percent.

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1 28. (Original) The apparatus of claim 25, wherein the objects having a size and volume 2 proportion to an amount of fluid in the enclosure. 1 29. (Original) The apparatus of claim 25, wherein the objects are a hydrophobic foam. 1 30. (Original) The apparatus of claim 25, wherein the object are a hydrophobic sponge. 1 31. (Original) The apparatus of claim 25, wherein the objects are made of one of the 2 following: sponge, foam, air-filled bubbles, or balloons. 1 32. (Original) The apparatus of claim 25, wherein the objects are encapsulated in a gas or 2 liquid impermeable package. 1 33. (Original) The apparatus of claim 32, wherein the package is formed of metallic barrier 2 material or metallized plastic sheet material. 1 (Original) The apparatus of claim 32, wherein the package is formed of plastic material. 34. 1 35. (Currently Amended) The apparatus of claim 34, wherein the plastic material is selected 2 from the group teflon, mylar, PET, PEN, and PVC, or other suitable plastic materials. 1 36-46 (Withdrawn). 1 47. (Original) A method of preventing cracking of a liquid system, the system including one 2 or more pumps and one or more heat exchangers, the method comprising the steps of: 3 providing an enclosure; and 4 immersing one or more compressible objects in the enclosure. 1 48. (Original) The method of claim 47, wherein the objects accommodate a predetermined

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level of fluid expansion.

- 1 49. (Original) The method of claim 48, wherein the predetermined level of fluid expansion is between 5 to 25 percent.
- 1 50. (Original) The method of claim 47, wherein the objects having a size and volume proportion to an amount of fluid in the enclosure.
- 1 51. (Original) The method of claim 47, wherein the objects are a hydrophobic foam.
- 1 52. (Original) The method of claim 47, wherein the objects are a hydrophobic sponge.
- 1 53. (Original) The method of claim 47, wherein the objects are made of one of the following: sponge, foam, air-filled bubbles, or balloons.
- 1 54. (Original) The method of claim 47, wherein the objects are encapsulated in a gas or liquid impermeable package.
- 1 55. (Original) The method of claim 54, wherein the package is formed of metallic barrier material or metallized plastic sheet material.
- 1 56. (Original) The method of claim 54, wherein the package is formed of plastic material.
- 2 57. (Currently Amended) The method of claim 56, wherein the plastic material is selected from the group teflon, mylar, PET, PEN, and PVC, or other suitable plastic materials.
- 1 58-69 (Withdrawn).
- 1 70. (Currently Amended) An apparatus for preventing cracking of a liquid system, the system
  2 including one or more pumps and one or more heat exchangers, comprising an enclosure,
  3 wherein the enclosure being capable of contracting and expanding between a minimum
  4 size and volume condition and a maximum size and volume condition with fluid
  5 expansion during freezing.
- 1 71-132 (Withdrawn).